

SCTE Benelux Lecture Programme

17 September 2013, RAI, Amsterdam, The Netherlands

10.00 Chairman's welcome

10.00 – 10.30

Hendrik Rood, Senior Advisor, Stratix *"Power Consumption in FTTH vs HFC-networks"*

Abstract

FTTH networks deploy a passive outside plant than HFC-networks and henceforth power consumption, a significant cost for MSOs, vanishes for the distribution network. However, deploying more and new equipment in the head-end and the effect of shifting a part of power consumption to the end-user with their premises NTU and other new equipment should be part of the full picture on energy usage impact. In this presentation, we will give an overview of the energy impact of FTTH from the perspective of Green IT objectives of a transitioning cable operator.

10.30 – 11.00

George Taylor, Smart Tech 21

"Network Powering: Methods, Costs and Financial Impact"

Abstract

The presentation on "Network Powering; Methods, Costs and Financial Impact" will deal with the cost and operation implications of power systems used in the broadband cable industry. The introduction of switch power technology will be discussed and compared with non-standby and standby power architectures. Potential cost impact of each technology as it relates to capital investment and operating expenses will be discussed. In addition, the potential truck roll reduction and manpower savings will be demonstrated.

11.00 Coffee break

11.30 – 12.00

Paul Shmotolokha, President, Coppervale

"Managing Critical Facility Energy Use To Meet Business Growth Demands"

Abstract

An MSO's critical facilities (data centres, head-ends, hubs etc.) represent approximately 25% of the company's annual electricity spend. However, with a near 50% year-on-year growth rate of the data going through these facilities and an unpredictable electricity pricing environment, MSOs are coming to the following conclusion: some action must be taken to prevent rapid acceleration of critical facility electricity spend in coming years. In fact, it has been noted by one MSO in the North American market that at current critical facility energy growth trajectory, inability to access adequate and cost effective energy resource could at some point limit future ability to grow the business.

To this end, cable operators are now realizing that to bring energy usage and availability under control, knowing and understanding their energy usage is an important first step to being able to properly and appropriately manage growth within their energy limitations and constraints (as they exist today and/or develop in the future). In essence, they are realizing that to avoid energy availability and affordability being a drag on future growth of the business, they must know as much about their energy use as they currently know about their networks.

12.00 – 12.30

Dr. René Spée, Consultant

“Power Utilization in HFC Networks - Status and Outlook”

Abstract:

HFC system operators spend approximately 60 to 70% of their powering budgets on the outside plant, with the remaining 30 to 40% covering critical facilities and administrative facilities. This presentation focuses on powering of the outside plant, presents benchmark power utilization figures for typical HFC systems and introduces key efficiency drivers: density, fibre penetration, coax infrastructure, system voltage, power supply utilization and efficiency of the fielded actives. This forms the foundation for a discussion of efficiency enhancement strategies to consider for new builds as well as existing plant. Given the capital investment in fielded infrastructure, any efficiency improvements for existing plant will be evolutionary in nature and subject to demonstration of acceptable return on investment .

The discussion will explore efficiency not only in terms of power consumption, but will also address the financial implications of various powering alternatives for the system operator. Depending on the powering architecture and the prevailing utility tariff environment, energy efficiency at times may not translate into financial effectiveness. In addition to energy and cost considerations, the presentation will also explore the potential impact of various powering strategies on overall system reliability.

12.30 Closing remarks, Chairman

Lunch